| Index of Claims |  |
|-----------------|--|
|                 |  |

| Application No. | Applicant(s)  |  |
|-----------------|---------------|--|
| 09/985,974      | BRIONI ET AL. |  |
| Examiner        | Art Unit      |  |
| Shengjun Wang   | 1617          |  |

| <b>√</b> | Rejected |
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| N        | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
|   | Interference |

| A | Appeal   |
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| 0 | Objected |

|                        |          | _                |          |          |           |          |         | •        |          | L        |                | _        |              |          |          |          |          | _            |    |
|------------------------|----------|------------------|----------|----------|-----------|----------|---------|----------|----------|----------|----------------|----------|--------------|----------|----------|----------|----------|--------------|----|
|                        | aim      | т-               |          |          | -         | _        | 260     | _        | _        |          |                | ٦.       |              | -1       | 1        |          | _        | _            | -  |
| 1                      | J. 11    | 160              | 7,       | 7        | _         | 꾸        | ate     | -        | т-       | 7-       | _              | $\dashv$ | 1            | aim      | +        | т        | _        | _            | _  |
| Final                  | Original | S S              | 130      |          |           |          |         |          |          |          |                |          | Final        | Original |          |          |          | İ            |    |
|                        | 1        | Īν               | 섟        | 1        | $\dagger$ | +        | -       | _        | t        | ╁        | +              | 1        | <del> </del> | 51       | ╁╴       | ╁        | ╁        | +            | _  |
|                        | 2        | V                | 1        | 7        | 1         | +        | T       |          | t        | †        | $\top$         | 1        | _            | 52       | t        | ╈        | ╅        | 十            | -  |
|                        | 3        | Τ                | T        | T        | $\top$    | 7        | 7       |          | T        | 1        | T              | 1        | 40.00        | 52<br>53 |          | +        | 1        | +            |    |
|                        | 4        | V                | 1        | 1        | 1         | 1        |         |          | T        | +        |                | 1        |              | 54       | 1        | $^{+}$   | +        | +            | _  |
|                        | 5        | マ                | T        |          | 1         | 十        | ┪       | _        | t        | $^{+}$   | $\top$         | 1        |              | 55       | ┢        | ╁╴       | ╈        | 十            | -  |
|                        | 6        | Īυ               | 1        | 7        | 1         | 1        | 1       |          | T        | T        | $\top$         | 1        |              | 56       | H        | +        | †        | ╅            | _  |
|                        | 7        | 1                | Т        | T        | T         | 7        | ╛       |          | T        | ✝        | 十              | 1        |              | 57       | ┢        | 1        | ╈        | +            | T  |
|                        | 8        | V                | ĺν       | 1        | 1         | 1        | ┪       |          | Т        | $\top$   | T              | 1        |              | 58       | t        | t        | $^{+}$   | 十            | _  |
|                        | 9        | V                | τ        | 7        | Т         | T        | T       |          | Т        | 1        | $\top$         | 1        |              | 59       | Т        | 1        | T        | †            | ٦  |
|                        | 10       | Î                | T        | Т        | 1         | T        | 7       |          | T        | †"       | 1-             | 1        |              | 60       | 1        | ✝        | Ť        | 十            | ٦  |
|                        | 11       | V                | Ī        | 1        | 1         | T        | T       |          | T        | 1        | 十              | 1        |              | 61       | ✝        | ✝        | 十        | ┿            | ٦  |
|                        | 12       | V                | V        | 1        | Т         | Т        | ╗       |          | Γ        | 1        | $\top$         | 1        |              | 62       | Г        | t        | T        | +            | ٦  |
|                        | 13       | L                |          | Γ        | Т         | Т        | ┪       |          |          | Т        | T              | 1        |              | 63       | Г        | Т        | Ť        | ╈            | ٦  |
|                        | 14       | V                | V        | 1        | Т         | Т        | 7       |          |          | 1        | T              | 1        |              | 64       | _        | T        | 1        | +            | ٦  |
|                        | 15       | П                |          | L        | Т         | Τ        | 1       |          |          | Т        | Т              | 1        |              | 65       |          | 1        | 1        | $\top$       | ٦  |
|                        | 16       | П                | П        | Γ        | Ι         | Т        | Т       |          | Γ        | Т        | Т              | 1        |              | 66       | _        | T        | Т        | T            | ٦  |
|                        | 17       | П                | П        |          | T         | Τ        | T       |          | Г        | Т        | Τ              | 1        |              | 67       | Г        | ⇈        | T        | 十            | 1  |
|                        | 18       | $\coprod$        | П        | Г        | Т         | Τ        | T       |          | Г        | T        | $\top$         | 1        |              | 68       | Г        | t        | ✝        | 1            | 1  |
|                        | 19       | $\prod$          | П        | Γ        | Π         | Τ        | Т       |          |          | Г        | Т              | 7        |              | 69       |          | Τ-       | 1        | $\top$       | 1  |
|                        | 20       |                  |          | L        | Γ         | П        | Τ       |          |          | Г        | Τ              | 1        |              | 70       |          |          |          | T            | 1  |
|                        | 21       | Ц                |          |          |           |          | T       |          |          | Г        | Г              | 1        |              | 71       | Г        |          | 1        | 1            | †  |
| <u></u>                | 22       | $\coprod_{\ell}$ | Ц        | L        |           | L        |         |          |          |          |                | ]        |              | 72       |          | Г        | Т        | T            | 7  |
| <u></u>                | 23       | V                | <u> </u> | L        | 1         | L        | $\perp$ |          |          |          |                | ]        |              | 73       |          |          | Г        | Т            | 1  |
| <u> </u>               | 24       | L                |          | L        | ┸         | $\perp$  | 1       |          |          | L        | L              | ]        |              | 74       |          | Г        | L        | Т            | 1  |
|                        | 25       | 1                | 7        | L        | 1_        | ┸        | ┵       |          |          | L        | 乚              |          |              | 75       | ٠        |          |          | Π            | T  |
| $\vdash$               | 26       | V                | يد       | Ļ        | ╀         | Ļ        | 4       | _        | _        | L        | L              | ]        |              | 76       |          |          |          | L            | I  |
| $\vdash$               | 27       | ightharpoons     | ىد       | -        | ╄         | +        | 4       | _        |          | L        | L              | 1        |              | 77       | _        | L        | L        |              | 1  |
| $\vdash$               | 28       |                  | _        | γ_       | ╀-        | ╀        | 4       | 4        |          |          | ┖              | 1        |              | 78       | _        | L_       | L        | ┸            | 1  |
| $\vdash$               | 29       | V                | V        | L        | ╀         | ╀        | 4       | 4        | _        | ┕        | L              | 1        |              | 79       |          | L        | L        | ┖            | 1  |
| $\vdash$               | 30       |                  | _        | L        | ╀         | 1        | 4       | 4        | _        | L        | L              | 1 1      |              | 80       |          | L        | L        | 上            | 1  |
| $\vdash$               | 31       | _                | _        | L        | ╄         | ╀        | 4       | 4        |          | L        | ╙              | ↓        |              | 81       | _        | L        | L        | <u> </u>     | 1  |
| $\vdash$               | 32       |                  | _        | -        | ╀         | ╀        | +       | 4        |          | ╙        | _              | <b>!</b> |              | 82       |          | <u> </u> | L        | ┖            | 1  |
| $\vdash$               | 33<br>34 | <b></b>          | _        | ⊢        | ╀         | ╀        | 1       | 4        |          | ├-       | <b>!</b>       | l l      | <b></b>      | 83       |          | L        | L        | 1_           | 1  |
|                        | 35       | Н                | _        | ⊢        | ╀         | ╀        | +       |          |          | <u> </u> | ├-             |          | <b>  </b>    | 84       | _        | _        | <u> </u> | <del> </del> | 1  |
|                        | 36       | Н                | _        | $\vdash$ | ╀         | ╀        | +       | 4        |          | $\vdash$ | ⊢              |          |              | 85       | _        | L        | <u> </u> | 1            | 1  |
| <del>  </del>          | 37       | $\vdash$         | _        | $\vdash$ | ╀         | +        | ╀       | 4        | _        | ├        | <del> </del> — |          | <b>├</b> —   | 86       |          | <u> </u> | ļ        | 1            | 1  |
| <del>  </del>          | 38       | $\dashv$         | _        | $\vdash$ | ╀         | ╁        | +       | -        | _        | $\vdash$ |                |          |              | 87       | _        | _        | -        | <b>├</b> -   | 1  |
| $\vdash$               | 39       | $\dashv$         |          | $\vdash$ | ╁         | ╀╌       | +       |          |          | ⊢        | $\vdash$       |          |              | 88       |          | <u> </u> | ١        | ⊢            | +  |
| $\vdash$               | 40       | $\dashv$         |          | ⊢        | +         | +-       | ╀       | $\dashv$ |          | $\vdash$ | $\vdash$       |          |              | 89       |          | _        | $\vdash$ | ₩            | +  |
| $\vdash$               | 41       | $\dashv$         | -        | ⊢        | ╁         | ╁        | +       | +        |          | ├        |                |          |              | 90<br>91 | -        | <b>_</b> | ⊢        | ╀            | +  |
| ┝─┤                    | 42       | -                | -        | $\vdash$ | ┢         | ╁        | ╁       | ᅥ        | -        |          | ⊢              |          |              |          | $\dashv$ | _        | ┝        | ⊢            | ╀  |
| $\vdash \vdash \vdash$ | 43       | ᅱ                | _        | H        | ⊢         | ┢        | +       | $\dashv$ |          | $\vdash$ | Н              |          |              | 92<br>93 |          | _        |          | ⊢            | +  |
| $\vdash$               | 44       | -                | _        | _        | $\vdash$  | ╁        | +       | +        | _        | -        |                | <i> </i> | $\dashv$     | 93       | _        | -        | $\vdash$ | -            | ł  |
| $\vdash$               | 45       | $\dashv$         |          |          | H         | †-       | $^{+}$  | +        | -        | $\vdash$ | -              | F        | <del> </del> | 95       |          | -        | $\vdash$ | <del> </del> | ł  |
|                        | 46       | ┪                | ┪        | -        | $\vdash$  | ۲        | +       | +        | -        | -        | $\vdash$       |          | -+           | 96       | $\dashv$ | _        | Ι        | -            | H  |
|                        | 47       | $\dashv$         |          |          | t-        | ✝        | t       | +        | -        | Н        | Н              | }        |              | 97       | $\dashv$ | -        | -        | $\vdash$     | ł  |
| ┌─┤                    | 48       | 1                | $\dashv$ | _        | 1-        | $\vdash$ | ۲       | +        | $\dashv$ | _        | Н              | 1        | $\dashv$     | 98       | 4        |          | -        | ├            | H  |
| <b> </b>               | 49       | +                | $\dashv$ | _        | Н         | H        | t       | +        | $\dashv$ | -        | Н              | <u> </u> |              | 99       |          |          | _        | $\vdash$     | ł  |
| $\vdash$               | 50       | 7                | $\dashv$ | _        | H         | 1        | t       | +        | $\dashv$ |          | Н              |          | -+           | 100      | ┰        | $\dashv$ | _        | ├-           | Ͱ  |
|                        |          |                  |          | _        | Ь_        | <u>-</u> | _       |          |          |          |                | L        | Щ.           | .00      |          |          |          |              | L. |

|          | laim           | I                   | Date     |          |          |              |          |              |          |                |  |  |  |  |
|----------|----------------|---------------------|----------|----------|----------|--------------|----------|--------------|----------|----------------|--|--|--|--|
| Final    | Original       |                     |          |          |          |              |          |              |          |                |  |  |  |  |
| _        |                | $\bot$              | ╀        | $\perp$  | $\perp$  | $\perp$      | $\perp$  | $\perp$      |          | _              |  |  |  |  |
| $\vdash$ | 51             | +                   | +        | ╁        | ╀        | 4            | +        | 4            | _        | ╀-             |  |  |  |  |
| -        | 52             | 1                   | +        | -        |          | 1            | +        | 4            | _        | _              |  |  |  |  |
| -        | 53             |                     | $\perp$  | $\perp$  | +        | 1            | 4.       | $\perp$      | 1        | _              |  |  |  |  |
| $\vdash$ | 54             | 1                   | 4_       | ╀        | 4        | 1            | 1        | 1            | ┸        | ┸              |  |  |  |  |
| $\vdash$ | 55             |                     | ↓.       | 4        | 4        | 1            | ┸        | 1            | 1        | 1_             |  |  |  |  |
| <b>⊢</b> | 56             | 4                   | 1        | ╀        | ┸        | 1            | ┸        | ┸            | ┸        | 4_             |  |  |  |  |
| $\vdash$ | 57             | <del> </del>        | ╀-       | ╀        | +        | +            | 4        | 1            | 4        | ╄              |  |  |  |  |
| -        | 58             | +                   | +        | 1        | ↓        | 4            | 4        | 4            | ┸        | <u>↓</u>       |  |  |  |  |
|          | 59             | +-                  | ╀        | ╄        | ╀        | +            | $\bot$   | ╀            | 4        | ╀-             |  |  |  |  |
| -        | 60             | 4-                  | ╀        | ╀        | ╁-       | 4            | +        | 4            | ╀        | ╁-             |  |  |  |  |
| -        | 61<br>62       | ╁                   | ╁        | ╀        | ╀        | ╀            | +-       | +            | +        | 十              |  |  |  |  |
| -        | 63             | ┿                   | ╀        | ╀        | ╀        | +            | +        | +            | +        | ╄              |  |  |  |  |
| -        | 64             | +-                  | ⊢        | ╀        | ╄        | ╄            | ╀        | +            | +-       | ╄-             |  |  |  |  |
| -        | 65             | +                   | ╁        | ╀        | ╁        | ╀            | ╀        | ╀            | ╄        | +              |  |  |  |  |
| -        | 66             | +-                  | ╁        | ╀        | ╁╌       | ╀            | +-       | ╀            | +        | ╀╌             |  |  |  |  |
|          | 67             | ╆                   | ╁╌       | ╁        | ╆        | ╂            | ╂╌       | ╀            | ╁        | ╁              |  |  |  |  |
| <b> </b> | 68             | +                   | ╁╌       | ╁        | ╁╌       | ╁            | ╁        | ╁            | ╁        | +              |  |  |  |  |
| -        | 69             | t                   | ┼-       | ╁┈       | ╁        | ╁            | ╁        | ╁            | ╁        | Н              |  |  |  |  |
|          | 70             | +                   | ┢        | H        | t        | ╁            | ╁        | ╁            | +        | Н              |  |  |  |  |
|          | 71             | t                   | ┼~       | ╁        | ╁╴       | ✝            | ╁╴       | ╁╴           | 十        | Н              |  |  |  |  |
|          | 72             |                     | $\vdash$ | Н        | +        | T            | †        | $^{+}$       | ╁        | Н              |  |  |  |  |
|          | 73             | T                   | П        | T        | $\top$   | T            | 1        | 1            | †        | П              |  |  |  |  |
|          | 73<br>74<br>75 |                     | Г        | Γ        |          | Т            | T        | 1            | $\top$   | П              |  |  |  |  |
|          | 75             | ·                   |          | Γ        |          | Т            | T        | T            |          | П              |  |  |  |  |
|          | 76             | $oxed{L}$           |          |          | L        |              |          |              |          |                |  |  |  |  |
| L        | 77             | L                   | L        | L        |          |              | L        | L            |          |                |  |  |  |  |
| <u> </u> | 78             | L                   | <u> </u> | ┖        | <u> </u> | ┖            | _        | ┖            |          | Ц              |  |  |  |  |
| <u> </u> | 79             | ļ                   | ᆫ        | 1_       | ┖        | ┺            | 上        | <u> </u>     | L        | Ш              |  |  |  |  |
| <u> </u> | 80             | L                   | <u> </u> | L        | <u> </u> | L            | ↓_       | ┖            | L        | Ц              |  |  |  |  |
| <u> </u> | 81             | L                   | _        | L_       | ļ        | ┖            | ┺        | ▙            | <u> </u> | Щ              |  |  |  |  |
| <u> </u> | 82<br>83       | ├-                  | <u> </u> | <u> </u> | ┞-       | ┡            | ╄        | <b> </b> _   | ـــ      | Н              |  |  |  |  |
| <u> </u> | 03             | ├                   | $\vdash$ | $\vdash$ | ╀        | 1            |          | <del> </del> | ╀        | Ш              |  |  |  |  |
| <b>-</b> | 84<br>85       | $\vdash$            | ⊢        | $\vdash$ | ├-       | ╀            |          | $\vdash$     | ₩        | Н              |  |  |  |  |
| <b>—</b> | 86             | -                   | ⊢        | -        | ╀        | ╀╌           | +-       | 1            | -        | ⊣              |  |  |  |  |
| $\vdash$ | 87             | Η-                  | ┝        | -        | ├-       | $\vdash$     | ┼        | ⊢            | ┢        | H              |  |  |  |  |
| $\vdash$ | 88             |                     | $\vdash$ | ┢        | ╁╌       | $\vdash$     | ╁╾       | $\vdash$     | ╁        | $\vdash\dashv$ |  |  |  |  |
|          | 89             | $\vdash$            | -        | ┢┈       | H        | <del> </del> | +        | ╁            | ┢        | Н              |  |  |  |  |
|          | 90             | H                   | $\vdash$ | $\vdash$ | ┢        | Н            | 1        | H            | ┢        | Н              |  |  |  |  |
|          | 91             | П                   |          | -        | ┢        | $\vdash$     | ╅        | H            | -        | Н              |  |  |  |  |
|          | 92             | П                   |          | Г        | Г        | Г            | $\vdash$ | T            | 1        | H              |  |  |  |  |
|          | 93             |                     |          |          |          |              |          | Г            |          | П              |  |  |  |  |
|          | 94             |                     |          |          |          |              |          |              |          | П              |  |  |  |  |
|          | 95             |                     |          |          |          |              |          |              |          |                |  |  |  |  |
|          | 96             |                     |          |          |          |              |          |              |          |                |  |  |  |  |
| <u> </u> | 97             | $\Box$              |          |          |          |              |          |              |          |                |  |  |  |  |
|          | 98             | Ш                   |          |          |          |              |          |              |          |                |  |  |  |  |
| <u> </u> | 99             | $\sqcup \downarrow$ |          |          |          |              |          |              |          |                |  |  |  |  |
|          | 100            |                     | - 1      |          | 1 7      |              | . 1      | . 1          | . 7      |                |  |  |  |  |

|   |          | laim       | T                               | Date     |   |           |          |   |          |          |          |           |  |  |
|---|----------|------------|---------------------------------|----------|---|-----------|----------|---|----------|----------|----------|-----------|--|--|
|   | $\vdash$ | T T        | ه در این این کا این کا کا کا کا |          |   |           |          |   |          |          |          |           |  |  |
|   | Final    | Original   |                                 |          |   |           |          |   |          |          |          |           |  |  |
|   | _        | 101        | ┢                               | ✝        | † | $\dagger$ | †        |   | ┢        | †        | ╁        | 十         |  |  |
|   |          | 102        |                                 |          |   |           | 1        |   |          | T        | 1        | 1         |  |  |
|   |          | 103        |                                 |          | Γ | Τ         |          |   |          |          | Ι        |           |  |  |
|   |          | 104        | L                               | L        | ╀ | $\perp$   | 4        |   | L        | L        | L        |           |  |  |
|   |          | 105        | _                               | L        | Ļ | +         | 4        | _ | L        | ╀        | ╀        | ↓_        |  |  |
|   |          | 106<br>107 | ļ                               | ┞-       | ╀ | ╀         | +        | _ | L        | ╀        | +        | _         |  |  |
|   |          | 108        | -                               | ┝        | ╀ | ┿         | +        | - | -        | ╀╌       | +        | ╀         |  |  |
|   |          | 109        | Н                               | t        | ╁ | ╁         | +        | - | _        | ╁        | ┿        | +         |  |  |
|   |          | 110        | Т                               |          | T | 十         | +        | _ | _        | t        | t        | ✝         |  |  |
|   |          | 111        | -                               |          | T | T         | T        |   | _        | T        | 十        | †         |  |  |
| Į |          | 112        |                                 |          |   |           | T        |   |          |          | Π        |           |  |  |
|   |          | 113        |                                 |          |   | L         |          |   |          |          | Γ        |           |  |  |
|   |          | 114        |                                 | ļ_       | L | ╀         | 1        | 4 |          | L        | Ļ        | П         |  |  |
| - |          | 115        | _                               | <u> </u> | ┞ | ╀         | 4        | 4 |          | ┡        | L        | $\perp$   |  |  |
|   |          | 116<br>117 |                                 | -        | ⊢ | ╀         | ╀        | ┩ |          | ⊢        | 1        | Н         |  |  |
| ł |          | 118        | -                               | <u> </u> | ⊢ | ╁         | ┿        | 4 | _        | ⊢        | ╀        | Н         |  |  |
| ŀ | _        | 119        | -                               | -        | ┝ | ╁         | ╁        | ┪ | -        | ┝        | ⊢        | Н         |  |  |
| ı |          | 120        |                                 | -        | ┢ | t         | ✝        | + | _        | ┝        | ┢        | H         |  |  |
| - |          | 121        |                                 |          | Г | 1         | Ť        | 7 |          | Т        | T        | Ħ         |  |  |
|   |          | 122        |                                 |          |   |           | T        | 1 |          |          |          | П         |  |  |
| Ļ |          | 123        |                                 |          | L | L         | Ι        |   |          |          | $\Box$   | $\Box$    |  |  |
| ļ |          | 124        | _                               |          | L | L         | Ļ        | 4 |          |          | _        | Ц         |  |  |
| ŀ |          | 125        | -                               |          | L | ┞         | ╀        | 4 | _        | -        | ╄        | Ц         |  |  |
| ŀ |          | 126<br>127 | -                               | -        | ┡ | ┝         | ╀        | + | _        |          | ┝        | Н         |  |  |
| ŀ | _        | 128        | $\dashv$                        | _        | ┝ | ⊢         | ╁        | ╁ | _        | _        | ┢        | Н         |  |  |
| ı |          | 128<br>129 |                                 |          | Т | ┢         | t        | + | _        | _        | H        | Н         |  |  |
| ı |          | 130        |                                 |          |   | Г         | t        | † |          | _        | Г        | Н         |  |  |
|   |          | 131        |                                 |          |   |           |          | 1 |          |          |          | П         |  |  |
|   |          | 132        |                                 |          |   |           | L        | I |          |          |          |           |  |  |
| 1 |          | 133        | _                               |          |   | L         | Ļ.       | 1 | _        |          |          | Ц         |  |  |
| ŀ |          | 134        |                                 | _        | _ | L         | ╄        | 4 | _        | _        | L        | Ш         |  |  |
| ŀ |          | 135<br>136 | -                               | _        |   | -         | ╀        | + | $\dashv$ |          | -        | Н         |  |  |
| ŀ |          | 137        | $\dashv$                        |          |   | ┢         | ╀        | + | ┥        |          | ⊢        | Н         |  |  |
| ŀ | $\neg$   | 138        | ┪                               | _        |   | ┢         | H        | 十 | ┪        | _        | $\vdash$ | Н         |  |  |
| ١ |          | 139        | 7                               |          |   | Г         | t        | Ť | ┪        | -        | Т        | Н         |  |  |
|   |          | 140        |                                 |          |   |           | Ι        | 1 |          |          |          | П         |  |  |
|   |          | 141        | $\Box$                          |          |   |           |          | I |          |          |          |           |  |  |
| ŀ | $\dashv$ | 142        | 4                               | _        |   | L         | L        | 1 | _        |          |          | Ш         |  |  |
| ┝ |          | 143        | 4                               | _        |   | L         | L        | 4 |          | _        |          | Ш         |  |  |
| ŀ |          | 144<br>145 | $\dashv$                        | $\dashv$ | _ | -         | ┞        | + | 4        | _        | L        | Н         |  |  |
| H |          | 146        | +                               | $\dashv$ | - | -         | $\vdash$ | + | +        | $\dashv$ | $\vdash$ | Н         |  |  |
| H | $\dashv$ | 147        | +                               | ┥        |   | -         | H        | + | $\dashv$ | $\dashv$ | Н        | $\dashv$  |  |  |
| 卜 | 7        | 148        | 7                               | 7        | ┪ | $\vdash$  | T        | † | 7        | ┪        |          | $\dashv$  |  |  |
|   |          | 149        |                                 | 寸        |   |           |          | İ | _†       |          |          | $\exists$ |  |  |
|   | $\Box$   | 150        | $\Box$                          |          |   |           |          | Ι |          |          |          |           |  |  |
|   |          |            |                                 |          |   |           | _        |   |          |          |          |           |  |  |